TEST REPORT OF PHYSICAL PROPERTIES OF CEMENT - 53 Grade

Lab ID	:	CP-2017-05-03-03 **Date: 06-05-2017**
Customer	:	Assistant Executive Engineer, Yelahanka Sub Division, BBMP, Banglore.
Address	:	Yelahanka Sub Division, BBMP, Banglore.
Project Name	:	Construction of drains at Dharmaraya Swamy temple road and Surrounding areas in Ward no.01 Yelahanka Sub-Division.
Agency	:	Sri.G.Kishore Naidu, No.81, SHI-C, 8th cross, 5th phase, Yelahanka, Bangalore.
Customer's Reference	:	EE(YNK.D)E-PMT-08/W.O/36/2017-18
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	03-05-2017
Sample ID No	:	2017-05-03-03/01
Sample Type	:	Zuari 53 grade
Reference to BIS codes	:	IS 12269 : 2013, 53 Grade Ordinary Portland cement Specification , IS 4031 (Part 1,2 3,4,5, 6,11):1988 IS 4031 Part 1 DETERMINATION OF FINENESS BY DRY SIEVING, Clause 4.4 IS 4031 Part 2, Determination of Fineness by Blaine Air Permeability Method, Clause 5 IS 4031 Part 3, Determination of Soundness, Clause 5,Clause 6 IS 4031 Part 4, Determination of Consistency of Standard Cement Paste, Clause 5 IS 4031 Part 5, Determination of Initial & Final Setting Time, Clause 5 IS 4031 Part 11,DETERMINATION OF DENSITY , Clause 6
Date of test	:	04-05-2017 to 05-05-2017

Sl.No.	Physical properties	Results	Requirement as per IS 12269: 2013
1	Fineness by dry sieving (%)	3.15	–
2	Finess by Air permeablity method (m^2/kg, Min)	286.5	225m^2/kg, Min
3	Density (gm/cc)	3.16	–
4	Standard Consistency (%)	28.0%	Not specified
5	Initial Setting time	160 minutes	Not less than 30 minutes
6	Final Setting time	240 minutes	Not more than 600 minutes
7	Soundness (Le Chatelier's Method)	1.5mm	Not more than 10 mm

Note:
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Prepared by
Harshitha

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Authorized Signatory
Quality Manager

****End of Report****

TEST REPORT OF PHYSICAL PROPERTIES OF CEMENT - 53 Grade

Lab ID	:	**CP-2017-05-03-03** **Date: 01-06-2017**
Customer	:	Assistant Executive Engineer, Yelahanka Sub Division, BBMP, Banglore.
Address	:	Yelahanka Sub Division, BBMP, Banglore.
Project Name	:	Construction of drains at Dharmaraya Swamy temple road and Surrounding areas in Ward no.01 Yelahanka Sub-Division.
Agency	:	Sri.G.Kishore Naidu, No.81, SHI-C, 8th cross, 5th phase, Yelahanka, Bangalore.
Customer's Reference	:	EE(YNK.D)E-PMT-08/W.O/36/2017-18
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	03-05-2017
Sample ID No	:	2017-05-03-03/01
Sample Type	:	Zuari 53 grade
Reference to BIS codes	:	IS 12269 : 2013, 53 Grade Ordinary Portland cement Specification , IS 4031 Part 4, Determination of Consistency of Standard Cement Paste, Clause 5 IS 4031 Part 6, Determination of Compressive Strength, Clause 6
Date of test	:	04-05-2017 to 01-06-2017

Compressive Strength

Sl.No.	Physical properties	Results	Requirement as per IS 12269: 2013
1	3 Days	29.0 N/mm^2	Not less than 27 N/mm^2
2	7 Days	38.5N/mm^2	Not less than 37 N/mm^2
3	28 Days	55.5N/mm^2	Not less than 53 N/mm^2

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TEST REPORT ON COARSE AGGREGATES

Lab ID	:	**CP-2017-05-03-03** **Date: 06-05-2017**
Customer	:	Assistant Executive Engineer, Yelahanka Sub Division, BBMP, Banglore.
Address	:	Yelahanka Sub Division, BBMP, Bangalore.
Project Name	:	Construction of drains at Dharmaraya Swamy temple road and Surrounding areas in Ward no.01 Yelahanka Sub-Division.
Agency	:	Sri.G.Kishore Naidu, No.81, SHI-C, 8th cross, 5th phase, Yelahanka, Bangalore.
Customer's Reference	:	EE(YNK.D)E-PMT-08/W.O/36/2017-18
Source of Sample	:	Sample supplied by Agency
Sample condition	:	Satisfactory
Date of Receipt	:	03-05-2017
Sample ID No	:	2017-05-03-03/02(a)
Sample Type	:	40mm down size coarse aggregate
Reference to BIS codes	:	IS: 383:2016 (Specification for Coarse and fine Aggregates) IS: 2386 :1963(Part - 1,3,4) RA2011 IS 2386 Part 1: Particle Size and Shape IS 2386 Part 3: Specific gravity, Density, Voids,Water Absorption IS 2386 Part 4: Mechanical Properties
Date of test	:	03-05-2017 to 06-05-2017

SIEVE ANALYSIS (PARTICLE SIZE DISTRIBUTION) OF 40MM DOWN COARSE AGGREGATE:

Total weight taken : **15000** grams

Sample No.	Sieve No.	Weight Retained in gms	Cumulative Weight Retained in gms	% Cumulative Weight Retained	% Passing	Required as per IS 383:2016
1	80 mm	0	0	0.0	100	100
2	40 mm	672	672	4.5	95.5	90-100
3	20 mm	7758	8430	56.2	43.8	30-70
4	10 mm	3567	11997	80.0	20.0	10-35
5	4.75 mm	2554	14551	97.0	3.0	0-5
6	Pan	449	15000	100.0	0	---

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TEST REPORT ON COARSE AGGREGATES

Lab ID : **CP-2017-05-03-03** **Date: 06-05-2017**

Sample ID No : 2017-05-03-03/02(a)

PHYSICAL PROPERTIES

Sl.no	Tests	Result	Requirements as per IS:383-2016
1	Flakiness Index(%)	10.1	Combined Flakiness & Elongation Index Shall not Exceed 40% for Uncrushed & Crushed Aggregate
2	Elongation Index(%)	12.2	
3	Specific Gravity	2.67	–
4	Bulk Density(Loose) (Kg/l)	1.52	–
5	Bulk Density(Compacted) (Kg/l)	1.61	–
6	Water Absorption(%)	0.21	–

Note:

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Authorized Signatory
Quality Manager

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TEST REPORT ON COARSE AGGREGATES

Lab ID	:	**CP-2017-05-03-03** **Date: 06-05-2017**
Customer	:	Assistant Executive Engineer, Yelahanka Sub Division, BBMP, Banglore.
Address	:	Yelahanka Sub Division, BBMP, Banglore.
Project Name	:	Construction of drains at Dharmaraya Swamy temple road and Surrounding areas in Ward no.01 Yelahanka Sub-Division.
Agency	:	Sri.G.Kishore Naidu, No.81, SHI-C, 8th cross, 5th phase, Yelahanka, Bangalore.
Customer Reference	:	EE(YNK.D)E-PMT-08/W.O/36/2017-18
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	03-05-2017
Sample ID No	:	2017-05-03-03/02(b)
Sample Type/ Size	:	20mm down size coarse aggregate
Reference to BIS codes	:	IS: 383:2016 (Specification for Coarse and fine Aggregates) IS: 2386 :1963(Part - 1,3,4) RA2011 IS 2386 Part 1: Particle Size and Shape IS 2386 Part 3: Specific gravity, Density, Voids,Water Absorption IS 2386 Part 4: Mechanical Properties
Date of test	:	03-05-2017 to 06-05-2017

SIEVE ANALYSIS (PARTICLE SIZE DISTRIBUTION) OF 20MM DOWN COARSE AGGREGATE:

Total weight taken : 5000 grams

Sample No.	Sieve No.	Weight Retained in gms	Cumulative Weight Retained in gms	% Cumulative Weight Retained	% Passing	Required as per IS 383:2016
1	40 mm	0	0	0	100	100
2	20 mm	234	234	4.7	95.3	90-100
3	10 mm	2276	2510	50.2	49.8	25-55
4	4.75 mm	2385	4895	97.9	2.1	0-10
5	Pan	105	5000	100	0	-

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TEST REPORT ON COARSE AGGREGATES

Lab ID : CP-2017-05-03-03 **Date: 06-05-2017**

Sample ID No : 2017-05-03-03/02(b)

PHYSICAL PROPERTIES

Sl.no	Tests	Result	Requirements as per IS:383-2016
1	Flakiness Index(%)	11.6	Combined Flakiness & Elongation Index Shall not Exceed 40% for Uncrushed & Crushed Aggregate
2	Elongation Index(%)	10.5	
3	Specific Gravity	2.61	–
4	Bulk Density(Loose) (Kg/l)	1.52	–
5	Bulk Density(Compacted) (Kg/l)	1.57	–
6	Water Absorption(%)	0.28	–
7	Aggregate crushing Value(%)	23.7	Max 30% for Aggregates to be used in concrete for wearing Surface, In case Aggregate Crushing Value Exceeds 30% then the test for ten percent fines should be conducted for Aggregates to be used in concrete other than for wearing Surface.
8	Aggregate Impact Value(%)	20.1	30% for Aggregates to be used in concrete for wearing Surface, 45% for Aggregates to be used in concrete other than for wearing Surface.

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TEST REPORT OF FINE AGGREGATE

Lab ID : CP-2017-05-03-03 **Date: 06-05-2017**

Customer : Assistant Executive Engineer, Yelahanka Sub Division, BBMP, Banglore.

Address : Yelahanka Sub Division, BBMP, Banglore.

Project Name : Construction of drains at Dharmaraya Swamy temple road and Surrounding areas in Ward no.01 Yelahanka Sub-Division.

Agency : Sri.G.Kishore Naidu, No.81, SHI-C, 8th cross, 5th phase, Yelahanka, Bangalore.

Customer's Reference : EE(YNK.D)E-PMT-08/W.O/36/2017-18

Source of Sample : Sample supplied by Agency

Sample Condition : Satisfactory

Date of Receipt : 03-05-2017

Sample ID No : 2017-05-03-03/03

Sample Type : Fine aggregate

Reference to BIS codes : IS 383 : 2016 (Specification for Coarse and fine Aggregates)
IS: 2386 :1963(Part - 1, 3) RA2012
IS 2386 Part 1: Particle Size and Shape
IS 2386 Part 3: Specific gravity, Density, Voids,Water Absorption

Date of test : 03-05-2017 to 06-05-2017

Total weight taken : 1000 grams

Sl.no	Sieve Size	Weight Retained (gms)	Cumulative Weight Retained (gms)	% Cumulative Weight Retained	% Passing	Grading Zone I	Grading Zone II	Grading Zone III	Grading Zone IV
1	10 mm	0	0	0	100	100	100	100	100
2	4.75 mm	59	59	5.9	94.1	90-100	90-100	90-100	95-100
3	2.36 mm	167	226	22.6	77.4	60-95	75-100	85-100	95-100
4	1.18 mm	203	429	42.9	57.1	30-70	55-90	75-100	90-100
5	600 micron	165	594	59.4	40.6	15-34	35-59	60-79	80-100
6	300 micron	196	790	79.0	21.0	5-20	8-30	12-40	15-50
7	150 micron	169	959	95.9	4.1	0-10	0-10	0-10	0-15
8	Pan	41	1000	100	0	---	---	---	---

Result :The tested Sample Conforms to Grading Zone II

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TEST REPORT OF FINE AGGREGATE

Lab ID : **CP-2017-05-03-03** **Date: 06-05-2017**

Sample ID No : 2017-05-03-03/03

PHYSICAL PROPERTIES

Sl.no	Tests	Result	Requirements as per IS 383:2016
1	Water Absorption(%)	2.3	–
2	Specific Gravity	2.56	–
3	Material finer than 75 micron	3.9	Uncrushed fine Aggregate Max 3%, Crushed Fine aggregate Max 15%, Mixed Fine aggregate Max 12%, Manufactured Fine aggregate Max 10%

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TEST RESULTS OF STEEL

Lab ID	:	**CP-2017-05-05-01** **Date: 08-05-2017**
Customer	:	Assistant Executive Engineer, Yelahanka Sub Division, BBMP, Bangalore.
Address	:	Yelahanka Sub Division, BBMP, Bangalore.
Project Name	:	Construction of drains at Dharmaraya Swamy temple road & Surrounding areas in ward no-01 of Yelahanka sub Division.
Agency	:	Sri. G.K Kishore Naidu, No 81, SHI-C, 8th Cross, 5th Phase, Yelahanka, Bangalore.
Customer's Reference	:	EE(YNK.D)E-PMT-08/W.O/36/2017-18
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	05-05-2017
Sample ID No	:	2017-05-05-01/01
Sample Type	:	Sunvik
Reference to BIS codes	:	IS 1786-2008
Date of test:	:	06-05-2017

SLNo	Identification of sample	Grade of the sample	Diameter of the steel bar	Weight of the sample (kg/m)	Yield stress (N/mm^2)	Tensile strength (N/mm^2)	Elongation (%)
1	Sunvik	Fe500	10mm	0.612	565	682	21.0%

SLNo	Identification of sample	Grade of the sample	Diameter of the steel bar	Bend test	Rebend test
1	Sunvik	Fe500	10mm	Satisfactory	Satisfactory

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TEST RESULTS OF STEEL

Lab ID	:	**CP-2017-05-05-01**	**Date: 08-05-2017**
Customer	:	Assistant Executive Engineer, Yelahanka Sub Division, BBMP, Bangalore.	
Address	:	Yelahanka Sub Division, BBMP, Bangalore.	
Project Name	:	Construction of drains at Dharmaraya Swamy temple road & Surrounding areas in ward no-01 of Yelahanka sub Division.	
Agency	:	Sri. G.K Kishore Naidu, No 81, SHI-C, 8th Cross, 5th Phase, Yelahanka, Bangalore.	
Customer's Reference	:	EE(YNK.D)E-PMT-08/W.O/36/2017-18	
Source of Sample	:	Sample supplied by Agency	
Sample Condition	:	Satisfactory	
Date of Receipt	:	05-05-2017	
Sample ID No	:	2017-05-05-01/02	
Sample Type	:	Sunvik	
Reference to BIS codes	:	IS 1786-2008	
Date of test:	:	06-05-2017	

Sl.No	Identification of sample	Grade of the sample	Diameter of the steel bar	Weight of the sample (kg/m)	Yield stress (N/mm^2)	Tensile strength (N/mm^2)	Elongation (%)
1	Sunvik	Fe500	12mm	0.885	578	692	20.0%

Sl.No	Identification of sample	Grade of the sample	Diameter of the steel bar	Bend test	Rebend test
1	Sunvik	Fe500	12mm	Satisfactory	Satisfactory

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TEST REPORT OF PRECAST COVER SLAB

Lab ID	:	**CP-2017-05-05-01** **Date: 09-05-2017**
Customer	:	Assistant Executive Engineer, Yelahanka Sub Division, BBMP, Bangalore.
Address	:	Yelahanka Sub Division, BBMP, Bangalore.
Project Name	:	Construction of drains at Dharmaraya Swamy temple road & Surrounding areas in ward no-01 of Yelahanka sub Division.
Agency	:	Sri. G.K Kishore Naidu, No 81, SHI-C, 8th Cross, 5th Phase, Yelahanka, Bangalore.
Customer's Reference	:	EE(YNK.D)E-PMT-08/W.O/36/2017-18
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	05-05-2017
Sample ID No	:	2017-05-05-01/03
Sample Type /Size	:	Precast Cover Slab
Reference to BIS codes	:	IS: 516 - 1959 Methods of Tests for Strength of Concrete
Date of test	:	05/05/2017

Sl. No.	Identification Mark	Diameter of the core	Height of the core	Weight of the core	Area	Failure Load	Core Compressive strength	Corrected Cylinder Compressive strength	Equivalent Cube Compressive strength
		(mm)	(mm)	(mm)	(Sq.mm)	(KN)	(N/mm^2)	(N/mm^2)	(N/mm^2)
1	Cover Slab-1	75.26	200.48	2.676	4448	99.6	22.4	22.4	28.0
2	Cover Slab-2	75.28	200.52	2.718	4450	92.4	20.8	20.8	26.0
3	Cover Slab-3	75.21	200.51	2.723	4442	95.1	21.4	21.4	26.8

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Certificate No.: T- 4358

TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : CP-2017-05-12-03 **Date: 17-05-2017**

Customer : Assistant Executive Engineer, Yelahanka Sub Division, BBMP, Banglore.

Address : Yelahanka Sub Division, BBMP, Banglore.

Project Name : Construction of drains at Dharmaraya Swamy temple road and Surrounding areas in Ward no.01 Yelahanka Sub-Division.

Agency : Sri.G.Kishore Naidu, No.81, SHI-C, 8th cross, 5th phase, Yelahanka, Bangalore.

Customer's Reference : EE(YNK.D)E-PMT-08/W.O/36/2017-18

Source of Sample : Sample supplied by Agency

Sample Condition : Satisfactory

Date of Receipt : 12-05-2017

Sample ID No : 2017-05-12-03/01

Customer ID : Drain Concrete

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M20 / 7 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

Date of test : 17/05/2017

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen	Cross sectional area	Weight of the sample	Failure Load	Compressive strength	Average Compressive Strength
					(mm)	(Sq.mm)	(kg)	(KN)	(N/mm^2)	(N/mm^2)
1	Drain Concrete	M20	10/05/2017	17/05/2017	151.20 X 151.45 X 150.34	22899	8.228	407.6	17.8	18.0
2	Drain Concrete	M20	10/05/2017	17/05/2017	149.37 X 150.38 X 150.48	22462	8.284	406.6	18.1	
3	Drain Concrete	M20	10/05/2017	17/05/2017	150.45 X 151.40 X 150.68	22778	8.269	414.6	18.2	

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TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID	:	**CP-2017-05-12-03** **Date: 07-06-2017**
Customer	:	Assistant Executive Engineer, Yelahanka Sub Division, BBMP, Banglore.
Address	:	Yelahanka Sub Division, BBMP, Banglore.
Project Name	:	Construction of drains at Dharmaraya Swamy temple road and Surrounding areas in Ward no.01 Yelahanka Sub-Division.
Agency	:	Sri.G.Kishore Naidu, No.81, SHI-C, 8th cross, 5th phase, Yelahanka, Bangalore.
Customer's Reference	:	EE(YNK.D)E-PMT-08/W.O/36/2017-18
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	12-05-2017
Sample ID No	:	2017-05-12-03/02
Customer ID	:	Drain Concrete
Sample Type /Size	:	150X150X150 mm
Sample grade/Age	:	M20 / 28 Days Compressive Strength
Reference to BIS codes	:	IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5
Date of test	:	07/06/2017

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	Drain Concrete	M20	10/05/2017	07/06/2017	150.40 X 149.45 X 151.34	22477	8.197	505.7	22.5	23.2
2	Drain Concrete	M20	10/05/2017	07/06/2017	150.83 X 151.39 X 150.84	22834	8.271	541.2	23.7	
3	Drain Concrete	M20	10/05/2017	07/06/2017	148.98 X 151.89 X 150.68	22629	8.216	529.5	23.4	

Note:
The results pertain to the samples received and tested.
All information furnished by Customer/Representative
Any correction in the report will make this report invalid
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Samples will be disposed after 30 days from the date of issue of test certificate

Prepared by
Harsitha

CIVIL Pro Sig..... Date..... BANGALORE

FOR CIVIL Pro.

KARTHIK RECHAN
Authorized Signatory
Quality Manager

****End of Report****

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